



Sample Archive

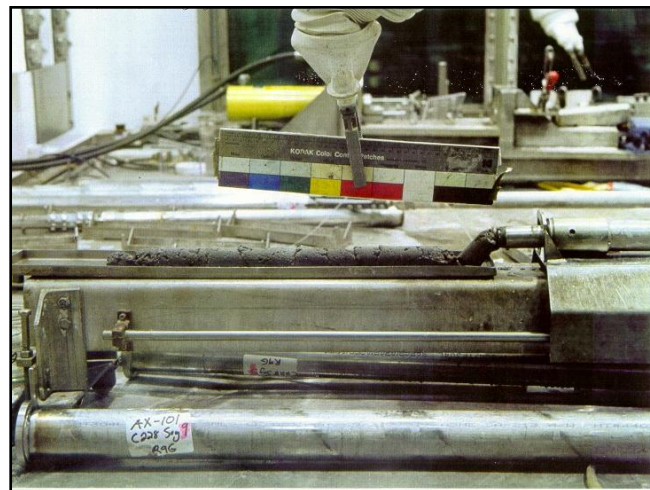


Sample
Preparation

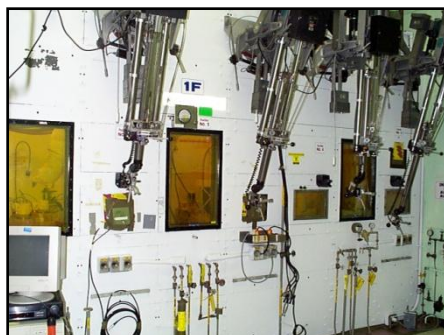


Development
Support

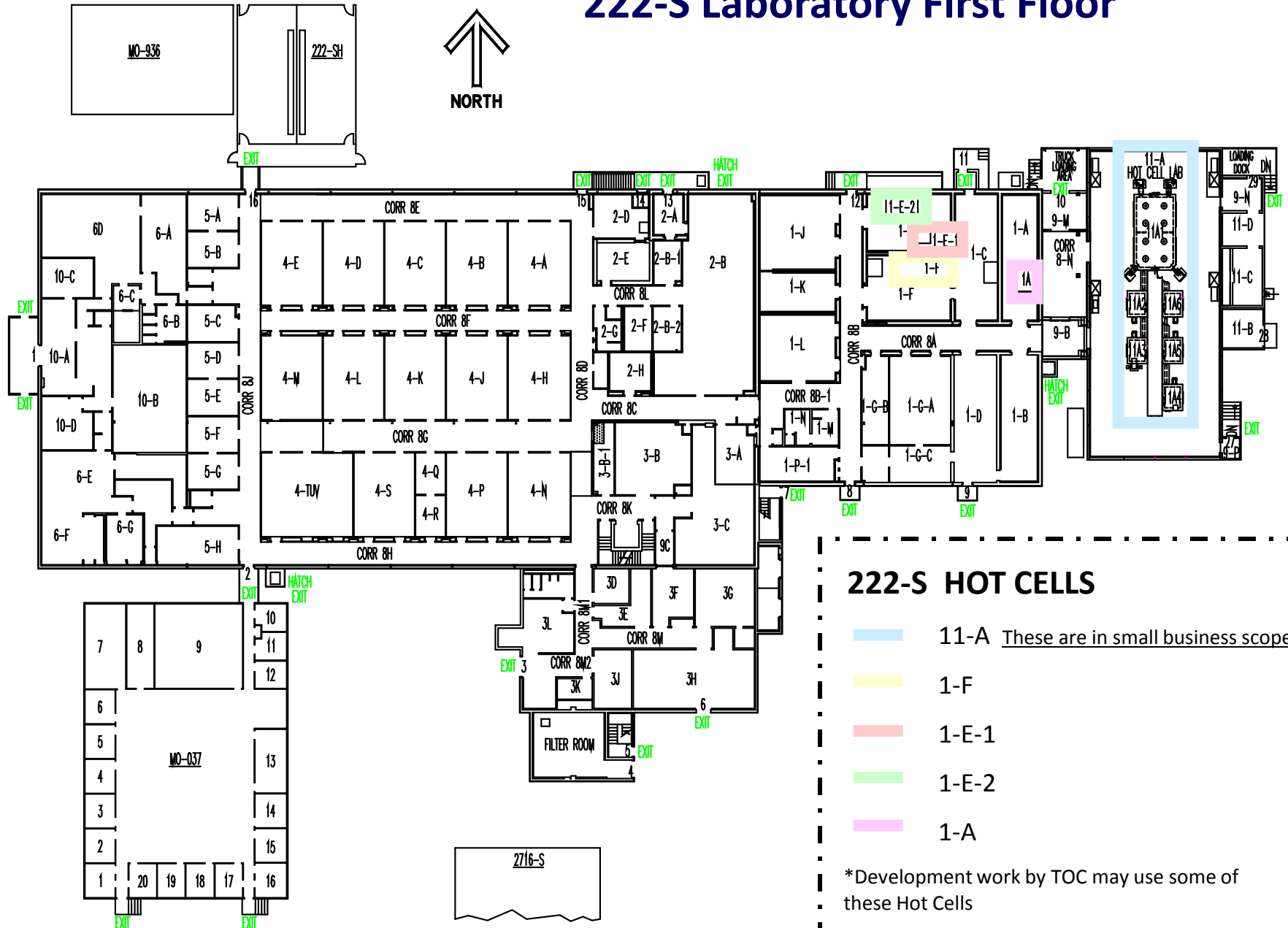
Sample
Extrusion



Computer attached to
a camera in the hot
cell



222-S Laboratory First Floor



222-S HOT CELLS

- 11-A These are in small business scope*
- 1-F
- 1-E-1
- 1-E-2
- 1-A

*Development work by TOC may use some of these Hot Cells



- Minimum nine inch thick steel walls
- Two ton crane
- 22 cell manipulator positions
 - 11-A manipulators have been re-designed to improve the ergonomics and reduce maintenance. The redesign includes the addition of counter balancing weights, redesign of the main pass through bearings, improvements to the manipulator fingers, and improved grips

11-A Hot Cells

- 11-A1A & 11-A1B
 - ✓ Overall Dimensions – Approximately 12' deep x 10' long x 7.5' high
 - ✓ Manned Entrance - Approximately 24" wide x 54" high
 - ✓ Transfer Drawer w/ Tray – Approximately 9.75" wide x 14" high x 34" deep
 - ✓ Transfer Drawer w/o Tray – Approximately 9.75" wide x 17.5" high x 34" deep
- 11-A2 through 11-A6
 - ✓ Overall Dimensions – Approximately 5' deep x 6' long x 7.5' high
 - ✓ Manned Entrance - Approximately 24" wide x 42" high
 - ✓ Transfer Drawer w/ Tray – Approximately 9.75" wide x 14" high x 22" deep
 - ✓ Transfer Drawer w/o Tray – Approximately 9.75" wide x 17.5" high x 22" deep

Note: Hot Cell height dimensions are overall height of the cells but may be restricted in locations because of overhead cranes. In addition, the manipulators do not extend to the top of the cells.

11-A Cell Usage

- 11-A1A and 11-A1B (routine operations cells)
 - ✓ Sample preparation and breakdown
 - ✓ Extrusions
 - ✓ Sample archive
- 11-A2 (routine operations cell)
 - ✓ Sample archive
- 11-A3 (development)
 - ✓ Viscosity
 - ✓ Electrochemical (corrosion)
- 11-A4 (development and routine operations)
 - ✓ Laser Ablation Mass Spectrometer
- 11-A5 (development)
 - ✓ Dissolution studies
 - ✓ SpG, critical weight for water leach, weighing percent water for solids
 - ✓ Glass Fusion for Laser Ablation
- 11-A6 (development and routine operations)
 - ✓ Boil-down studies